

A04- 0020

*National
Environmental
Achievement Track
Application Form*

IBM Research Triangle Park

Name of facility

International Business Machines Corporation

Name of parent company (if any)

3039 Cornwallis Road

Street address

Street address (cont.)

Research Triangle Park, NC 27709

City/State/Zip code

Give us information about your contact person for the
National Environmental Achievement Track Program.

Name Stuart Hurwitz

Title Advisory Engineer , PE (TX), CHMM

Phone 919-254-0810

Fax 919-254-9294

E-mail hurwitz@us.ibm.com

Section A

Tell us about your facility.

Why do we need this information?

EPA needs background information on your facility to evaluate your application.

What do you need to do?

- Provide background information on your facility.
- Identify your environmental requirements.

1 What do you do or make at your facility?

Activities that apply to IBM RTP include light manufacture/assembly of computer hardware products, computer refurbishing operations, and hardware and software development activities. Services at RTP include the customer call centers for consumer software/hardware support, human resources, and real estate and site operations.

2 List the Standard Industrial Classification (SIC) code(s) or North American Industrial Classification System (NAICS) codes that you use to classify business at your facility.

SIC

3571

NAICS

334111

3 Does your company meet the Small Business Administration definition of a small business for your sector?

☐ Yes ☒ No

4 How many employees (full-time equivalents) currently work at your facility?

☐ Fewer than 50

☐ 50-99

☐ 100-499

☐ 500-1,000

☒ More than 1,000

Section A, continued

- 5 Does your facility have an EPA ID number(s)?

☒ Yes ☐ No

If yes, list in the right-hand column.

EPA ID. NCD 041 463 761

- 6 Identify the environmental requirements that apply to your facility. Use the Environmental Requirements Checklist, at the back of the instructions, as a reference. List your requirements to the right or enclose a completed Checklist with your application.

Refer to Checklist

- 7 Check the appropriate box in the right-hand column.

☐ I've listed the requirements above.

☒ I've enclosed the Checklist with my application.

- 8 Optional: Is there anything else you would like to tell us about your facility?

ISO14001 Registration: June 1998

North Carolina Ozone Air Awareness
Program Participation 1998, 1999, 2000

North Carolina Ozone Air Awareness
Program: Best Program Award 1998

Section B

Tell us about your EMS

Why do we need this information?

Facilities must have an operating Environmental Management System (EMS) that meets certain requirements.

What do you need to do?

- Confirm that your EMS meets the Achievement Track requirements.
- Tell us if you have completed a self-assessment or have had a third-party assessment of your EMS.

1 Check yes if your EMS meets the requirements for each element below as defined in the instructions.

a. Environmental policy ----- ☒ Yes

b. Planning ----- ☒ Yes

c. Implementation and operation ----- ☒ Yes

d. Checking and corrective action ----- ☒ Yes

e. Management review ----- ☒ Yes

2 Have you completed at least one EMS cycle (plan-do-check-act)? ☒ Yes

3 Did this cycle include both an EMS and a compliance audit? ☒ Yes

4 Have you completed an objective self-assessment or third-party assessment of your EMS? ☒ Yes

If yes, what method of EMS assessment did you use? ☒ Self-assessment

☐ GEMI ☒ Other

☐ CEMP (*)

(*) IBM Professional Self Assessment (Internal Protocol), Location Internal EMS (ISO14001) Audits, Real Estate and Site Operations Peer Review

☒ Third-party assessment

☒ ISO 14001 Certification BVQI Audit
Received Certification: June 1998
Surveillance Audit : June 1999

☒ Other IBM Corporate Internal
Audit: ** Independent
Organization within IBM

Why do we need this information?

Facilities must show that they are committed to improving their environmental performance. This means that you can describe past achievements and will make future commitments.

What do you need to do?

Refer to the Environmental Performance Table in the instructions to answer questions 1 and 2.

Section C

Tell us about your past achievements and future commitments.

- 1 Describe your past achievements for at least two environmental aspects. If you need more space than is provided, attach copies of this page.

Note to small facilities: If you qualify as a small facility as defined in the instructions, you are required to report past achievement for at least one environmental aspect.

First aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)? (1997)		What is the current level? (1999)	
	Quantity	Units	Quantity	Units
Energy Use	15.1	MegaWatt-Hours per Employee	12.1	MegaWatt-Hours per Employee
<p>i. How is the current level an improvement over the previous level?</p> <p>The improvements implemented as part of this program reduced energy consumption (per employee) by approximately 19.9% over the two year period.</p> <p>_____</p> <p>_____</p> <p>_____</p>				
<p>ii. How did you achieve this improvement?</p> <ul style="list-style-type: none"> Initiated performance contract to upgrade lighting, HVAC, and site infrastructure to achieve energy and maintenance savings. Adjust building lighting schedules. Rebalance outside air and circulation on building systems. Shutoff secondary chilled water loops during the winter. System maintenance to repair steam leaks. <p>_____</p> <p>_____</p>				

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Section C, continued

Second aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)?		What is the current level?	
	Quantity	Units	Quantity	Units
<p>i. How is the current level an improvement over the previous level?</p> <p>The improvements increased the quantity of cartridges shipped for remanufacturing by approximately 200%. These cartridges were then returned for reuse throughout the facility.</p>				
<p>ii. How did you achieve this improvement?</p> <ul style="list-style-type: none"> Improved communications to notify employees on availability of remanufactured/recycled laser & fax cartridges. Expanded the variety and type of cartridges available. 				

2. Select at least four environmental aspects (no more than two from any one category) from the Environmental Performance Table in the instructions and then tell us about your future commitments. If you need more space than is provided, attach copies of this section.

Note to small facilities: If you are a small facility, you are required to make commitments for at least two environmental aspects in two different categories.

First aspect you've selected

- a. What is the aspect? Waste Recycling - Solid Waste Recycle Rate
- b. Is this aspect identified as significant in your EMS? ☒ Yes ☐ No
- c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.
- | | |
|---|---|
| <p><input checked="" type="checkbox"/> Option A:</p> <p><input type="checkbox"/> Absolute value</p> <p><input checked="" type="checkbox"/> Option B:</p> <p>In terms of units of production or output</p> | <p><i>Total Generated:</i>
30,721 klbs</p> <p><i>% Recycled: 74%</i>
(Quantity/Units)</p> <hr/> <p>(Quantity/Units)</p> |
|---|---|

2/1/01

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Section C, continued

- d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

<input type="checkbox"/> Option A:	82% (Note A)
Absolute value	(Quantity/Units)
<input type="checkbox"/> Option B:	
In terms of units of production or output	(Quantity/Units)

Note A: Target solid waste recycle rate at end of 2001. The goal will be reevaluated at the end of this time period.

- e. How will you achieve this improvement?

Projects that will contribute toward the accomplishment of this goal include:

- Recycling of cafeteria organic materials
- Recycling of construction and demolition debris.

Second aspect you've selected

- a. What is the aspect?

Waste Recycling - Nonhazardous Industrial Waste Recycle Rate

- b. Is this aspect identified as significant in your EMS?

☐ Yes ☐ No

- c. What is the current level? You may choose to state this

as an absolute value or in terms of units of production or output.

<input type="checkbox"/> Option A:	Total Generated: 393 klbs
Absolute value	% Recycled: 38% (Quantity/Units)

<input type="checkbox"/> Option B:	
In terms of units of production or output	(Quantity/Units)

- d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

<input type="checkbox"/> Option A:	45% (Note B)
Absolute value	(Quantity/Units)

<input type="checkbox"/> Option B:	
In terms of units of production or output	(Quantity/Units)

Note B: One year goal. The goal will be reevaluated at the end of this time period.

- e. How will you achieve this improvement?

Identify recycle opportunities for nonhazardous industrial waste generated from facilities & maintenance projects.

2/1/01
12/14/00

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Section C, continued

Third aspect you've selected

- a. What is the aspect?
- b. Is this aspect identified as significant in your EMS?
- c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.
- d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

Note C: One year goal. The goal will be reevaluated at the end of this time period. The facility will estimate the reduction in air emissions based on the number of registered carpoolers and the information available on the EPA website for estimating emissions modeling. This will be available in the annual performance report.

- e. How will you achieve this improvement?
Implementation of IBMrides program. The elements of this program include: (1) an online ridematching database & carpool registration, (2) emergency ride home, (3) preferred parking.

Air Emissions - Employee Commuting

<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input checked="" type="checkbox"/>	Option A:	<u>New Program</u>	
	Absolute value	(Quantity/Units)	
<input checked="" type="checkbox"/>	Option B:		
	In terms of units of production or output	(Quantity/Units)	
<input checked="" type="checkbox"/>	Option A:	100 registered carpool groups	
	Absolute value	<u>(Note C)</u>	
		(Quantity/Units)	
<input checked="" type="checkbox"/>	Option B:		
	In terms of units of production or output	(Quantity/Units)	

Fourth aspect you've selected

- a. What is the aspect?
- b. Is this aspect identified as significant in your EMS?
- c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output. *(Year End 1999 Level)*
- d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.

Note D: Goal for Year End 2001. Four percent year to year energy conservation for the site. Progress will be measured and the goal reevaluated at that time.

- e. How will you achieve this improvement?

Energy Consumption

<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input checked="" type="checkbox"/>	Option A:	1,031,142,058	
	Absolute value	<u>MMBTU</u>	
		(Quantity/Units)	
<input checked="" type="checkbox"/>	Option B:		
	In terms of units of production or output	(Quantity/Units)	
<input checked="" type="checkbox"/>	Option A:	4% energy conservation	
	Absolute value	<u>(Note D)</u>	
		(Quantity/Units)	
<input checked="" type="checkbox"/>	Option B:		
	In terms of units of production or output	(Quantity/Units)	

Section D

Tell us about your public outreach and reporting.

Why do we need this information?

Facilities must demonstrate their commitment to public outreach and performance reporting. You should have appropriate mechanisms in place to identify community concerns, to communicate with the public, and to provide information on your environmental performance.

What do you need to do?

- Describe your approach to public outreach.
- List three references who are familiar with your facility.

1 How do you identify and respond to community concerns?

The primary means is through participation in external meetings, organizations, and regional planning efforts including:

- Research Triangle Park ("RTP") Owners and Tenants Group
- RTP Recycles Group (Solid Waste Recycling)
- Smartcommute@RTP (Transportation Issues)

2 How do you inform community members of important matters that affect them?

Information is conveyed to the community through the same groups identified above. In addition, to these organizations, IBM RTP's environmental communications programs include:

- Site participation in Earthday and America Recycles Day Activities
- Distribution of the RCRA Contingency Plan to area hospitals and emergency services/planning organizations.
- Research Triangle Foundation Emergency Notification System (Notification of all Research Triangle Park tenants of emergency situations)

3 How will you make the Achievement Track Annual Performance Report available to the public?

☒ Website www.ibm.com/ibm/Environment/

☐ Newspaper

☐ Open Houses

☐ Other

Section D, continued

4 Are there any ongoing citizen suits against your facility?

☐ Yes ☒ No

If yes, describe briefly in the right-hand column.

5 List references below.

	Organization	Name	Phone number
<i>Representative of a Community/ Citizen Group</i>	Research Triangle Foundation of NC - Research Triangle Park Owners and Tenants Group	James Roberson or Elizabeth Rooks	919-549-8181
<i>State/Local regulator</i>	North Carolina Department of Environment and Natural Resources	Robert McDaniel, Hydrogeologist, Division of Waste Management	919-733-2178 x239
<i>Other community/local reference</i>	North Carolina Ozone Air Awareness Program - North Carolina Department of Environment and Natural Resources, Division of Air Quality	Sheila Holman	919-715-0971

Section E

Application and Participation Statement

On behalf of **IBM Research Triangle Park**

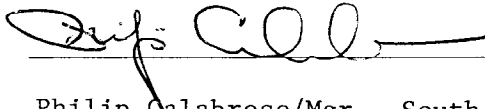
I certify that

- I have read and agree to the terms and conditions, as specified in the *National Environmental Achievement Track Program Description* and in the *Application Instructions*;
- I have personally examined and am familiar with the information contained in this Application (including, if attached, the Environmental Requirements Checklist). The information contained in this Application is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete, and I have no reason to believe the facility would not meet all program requirements;
- My facility has an environmental management system (EMS), as defined in the Achievement Track EMS requirements, including systems to maintain compliance with all applicable federal, state, tribal, and local environmental requirements, in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;
- My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements, and the facility has corrected all identified instances of potential or actual noncompliance;
- Based on the foregoing compliance assessment and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environmental Achievement Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior facility manager and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is applying to this program.

Signature/Date:



Printed Name/Title:

Philip Calabrese/Mgr., South Site Operations

Facility Name:

IBM Research Triangle Park

Facility Street Address:

3039 Cornwallis Road, Research Triangle Park, NC 27709

Facility ID Numbers:

EPA ID. NCD 041 463 761

National Environmental Achievement Track

Environmental Requirements Checklist

The following *Checklist* is provided to assist facilities in answering *Section A, Tell us about Your facility, Question 6*. The *Checklist* is given to help facilities identify the major federal, state, tribal, and local environmental requirements applicable at their facilities. The *Checklist* is not intended to be an exhaustive list of all environmental requirements that may be applicable at an individual facility.

If you use this *Checklist* and choose to submit it with your application, fill in your facility information below and enclose the completed *Checklist* with your application (see instructions).

Facility Name: IBM Research Triangle Park

Facility Location: 3039 Cornwallis Road,
Research Triangle Park, NC 27709

Facility ID Number(s) EPA ID. NCD 041 463 761
(attach additional sheets if necessary)

Check All
That Apply

Air Pollution Regulations

- | | |
|---|---|
| 1. National Emission Standards for Hazardous Air Pollutants (40 CFR 61) | X |
| 2. Permits and Registration of Air Pollution Sources | X |
| 3. General Emission Standards, Prohibitions and Restrictions | X |
| 4. Control of Incinerators | |
| 5. Process Industry Emission Standards | |
| 6. Control of Fuel Burning Equipment | X |
| 7. Control of VOCs | X |
| 8. Sampling, Testing and Reporting | X |
| 9. Visible Emissions Standards | X |
| 10. Control of Fugitive Dust | |
| 11. Toxic Air Pollutants Control | X |
| 12. Vehicle Emissions Inspections and Testing | |

Other Federal, State, Tribal or Local Air Pollution Regulations Not Listed Above
(identify)

- | | |
|--|---|
| 13. North Carolina Administrative Code, 15A, 2D (Air Pollution Control Requirements), 2H (Procedures for Permits: Approvals), & 2Q (Air Quality Permit Procedures) | X |
|--|---|

- | | | |
|-----|---|---|
| 14. | New Source Performance Standards, 40 CFR Part 60 Subpart Kb | X |
|-----|---|---|
-

Hazardous Waste Management Regulations

- | | | |
|----|---|---|
| 1. | Identification and Listing of Hazardous Waste (40 CFR 261) | X |
| | - Characteristic Waste | X |
| | - Listed Waste | X |
| 2. | Standards Applicable to Generators of Hazardous Waste (40 CFR 262) | X |
| | - Manifesting | X |
| | - Pre-transport requirements | X |
| | - Record keeping/reporting | X |
| 3. | Standards Applicable to Transporters of Hazardous Waste (40 CFR 263) | |
| | - Transfer facility requirements | |
| | - Manifest system and record-keeping | |
| | - Hazardous waste discharges | |
| 4. | Standards for Owners and Operators of TSD Facilities (40 CFR 264) | X |
| | - General facility standards | X |
| | - Preparedness and prevention | X |
| | - Contingency plan and emergency procedures | X |
| | - Manifest system, Record keeping and reporting | X |
| | - Groundwater protection | X |
| | - Financial requirements | X |
| | - Use and management of containers | X |
| | - Tanks | |
| | - Waste piles | |
| | - Land treatment | |
| | - Incinerators | |
| 5. | Interim Status Standards for TSD Owners and Operators (40 CFR 265) | |
| 6. | Interim Standards for Owners and Operators of New Hazardous Waste Land Disposal Facilities (40 CFR 267) | |
| 7. | Administered Permit Program (Part B) (40 CFR 270) | X |

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (identify)

- | | | |
|----|--|---|
| 8. | North Carolina Administrative Code Title 15A, Chapter 13 (Solid Waste Management), Subchapter 13A (Hazardous Waste Management) | X |
| 9. | North Carolina Administrative Code Title 15A, Chapter 2 (Environmental Management), Subchapter 2L (Groundwater Classification and Standards) | X |
-

Hazardous Materials Management

- | | | |
|----|---|---|
| 1. | Control of Pollution by Oil and Hazardous Substances (33 CFR 153) | |
| 2. | Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) | X |
| 3. | Hazardous Materials Transportation Regulations (49 CFR 172-173) | X |
| 4. | Worker Right-to-Know Regulations (29 CFR 1910.1200) | X |
| 5. | Community Right-to-Know Regulations (40 CFR 350-372) | X |

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (*identify*)

6. _____
7. _____

Solid Waste Management

- | | | |
|----|---|---|
| 1. | Criteria for Classification of Solid Waste Disposal Facilities and Practices (40 CFR 257) | |
| 2. | Permit Requirements for Solid Waste Disposal Facilities | |
| 3. | Installation of Systems of Refuse Disposal | |
| 4. | Solid Waste Storage and Removal Requirements | |
| 5. | Disposal Requirements for Special Wastes | X |

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (*identify*)

6. North Carolina Administrative Code Title 15A, Chapter 13 (Solid Waste Management), Subchapter 13B (Solid Waste Management) X
7. _____

Water Pollution Control Requirements

- | | | |
|-----|--|---|
| 1. | Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112) | X |
| 2. | Designation of Hazardous Substances (40 CFR 116) | X |
| 3. | Determination of Reportable Quantities for Hazardous Substances
(40 CFR 117) | X |
| 4. | NPDES Permit Requirements (40 CFR 122) | X |
| 5. | Toxic Pollutant Effluent Standards (40 CFR 129) | |
| 6. | General Pretreatment Regulations for Existing and New Sources (40 CFR 403) | X |
| 7. | Organic Chemicals Manufacturing Point Source Effluent Guidelines
And Standards (40 CFR 414) | |
| 8. | Inorganic Chemicals Manufacturing Point Source Effluent Guidelines
and Standards (40 CFR 415) | |
| 9. | Plastics and Synthetics Point Source Effluent Guidelines and Standards
(40 CFR 416) | |
| 10. | Water Quality Standards | X |
| 11. | Effluent Limitations for Direct Dischargers | |
| 12. | Permit Monitoring/Reporting Requirements | X |
| 13. | Classifications and Certifications of Operators and Superintendents
of Industrial Wastewater Plants | |
| 14. | Collection, Handling, Processing of Sewage Sludge | |
| 15. | Oil Discharge Containment, Control and Cleanup | |
| 16. | Standards Applicable to Indirect Discharges (Pretreatment) | X |

Other Federal, State, Tribal or Local Water Pollution Control Regulations Not Listed Above (*identify*)

- | | | |
|-----|--|---|
| 17. | North Carolina Administrative Code 15A. Chapter 2, Subchapter 2H
(Procedures for Permits: Approvals), .0900 (Local Pretreatment Programs) | X |
| 18. | County of Durham, Chapter 26 Utilities, Article IV. Sewer Use | X |

Drinking Water Regulations

- | | |
|----|--|
| 1. | Underground Injection and Control Regulations, Criteria and Standards
(40 CFR 144, 146) |
| 2. | National Primary Drinking Water Standards (40 CFR 141) |
| 3. | Community Water Systems, Monitoring and Reporting Requirements
(40 CFR 141) |
| 4. | Permit Requirements for Appropriation /Use of Water from Surface or
Subsurface Sources |
| 5. | Underground Injection Control Requirements |
| 6. | Monitoring, Reporting and Record keeping Requirements for Community
Water Systems |

Other Federal, State, Tribal or Local Drinking Water Regulations Not Listed Above

(identify)

7. _____

8. _____

Toxic Substances

- | | |
|--|---|
| 1. Manufacture and Import of Chemicals, Record keeping and Reporting Requirements (40 CFR 704) | X |
| 2. Import and Export of Chemicals (40 CFR 707) | X |
| 3. Chemical Substances Inventory Reporting Requirements (40 CFR 710) | |
| 4. Chemical Information Rules (40 CFR 712) | |
| 5. Health and Safety Data Reporting (40 CFR 716) | |
| 6. Pre-Manufacture Notifications (40 CFR 720) | |
| 7. PCB Distribution Use, Storage and Disposal (40 CFR 761) | X |
| 8. Regulations on Use of Fully Halogenated Chlorofluoroalkanes (40 CFR 762) | |
| 9. Storage and Disposal of Waste Material Containing TCDD (40 CFR 775) | |

Other Federal, State, Tribal or Local Toxic Substances Regulations Not Listed Above
(identify)

10. _____

11. _____

Pesticide Regulations

1. FTFRA Pesticide Use Classification (40 CFR 162)
2. Procedures for Disposal and Storage of Pesticides and Containers
(40 CFR 165)
3. Certification of Pesticide Applications (40 CFR 17.1)
4. Pesticide Licensing Requirements
5. Labeling of Pesticides
6. Pesticide Sales, Permits, Records, Application and Disposal Requirements
7. Disposal of Pesticide Containers
8. Restricted Use and Prohibited Pesticides

Other Federal, State, Tribal or Local Pesticides Regulations Not Listed Above (identify)

9. _____

10. _____

Environmental Clean-Up, Restoration, Corrective Action

1. Comprehensive Environmental Response, Compensation and Liability Act (Superfund) (*identify*)

2. RCRA Corrective Action (*identify*)

RCRA Hazardous Waste Permit, Part C: Groundwater Corrective Action Plan

Other Federal, State, Tribal or Local Environmental Clean-Up, Restoration, Corrective Action Regulations Not Listed Above (*identify*)

3.

4.
